

In the claims:

Please cancel claim 3.

Please enter amended claims 1, 4, 7 and 8 as shown below, and add new claims 16-19 as shown.

B.4 1. (Amended) A late blight-resistant potato plant comprising a segment of chromosome 8 of the genome from *Solanum bulbocastanum* which comprises a gene that confers said resistance to late blight, wherein the gene conferring the late blight resistance co-segregates with a marker selected from the group consisting of a GO2₅₈₆ RAPD marker, a PO9₅₈₇ RAPD marker, a CT88 RFLP marker, a CT148 RFLP marker, a CT252 RFLP marker and a CT68 RFLP marker.

B.5 4. (Twice amended) The potato plant of claim 1 wherein the GO2₅₈₆ RAPD marker comprises SEQ ID NO:1, the PO9₅₈₇ RAPD marker comprises SEQ ID NO:2, and the CT88 RFLP marker comprises SEQ ID NO:3, SEQ ID NO:4 or SEQ ID NO:5.

B.6 7. (Amended) The potato plant of claim 1, wherein the segment of chromosome 8 of the genome from *Solanum bulbocastanum* which comprises the gene that confers the resistance to late blight is incorporated into the plant by genetic transformation of a cell of the plant with a plant transforming vector comprising the segment.

8. (Twice amended) An isolated nucleic acid molecule comprising the nucleotide sequence of SEQ ID NO:5, or a nucleotide sequence complementary thereto.

New claims:

16. (New) A late blight-resistant potato plant that is a backcross progeny of a somatic hybrid of *Solanum tuberosum* and *Solanum bulbocastanum*, wherein the plant comprises a segment of chromosome 8 of the *Solanum bulbocastanum* genome having a gene that confers the late blight resistance.

17. (New) The potato plant of claim 16, wherein the gene conferring the late blight resistance co-segregates with a marker selected from the group consisting of a GO2₅₈₆ RAPD marker, a PO9₅₈₇ RAPD marker, a CT88 RFLP marker, a CT148 RFLP marker, a CT252 RFLP marker and a CT68 RFLP marker.

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18. (New) The potato plant of claim 17 wherein the GO2₅₈₆ RAPD marker comprises SEQ ID NO:1, the PO9₅₈₇ RAPD marker comprises SEQ ID NO:2, and the CT88 RFLP marker comprises SEQ ID NO:3, SEQ ID NO:4 or SEQ ID NO:5.

19. (New) The potato plant of claim 16, which is also resistant to at least one additional disease selected from the group consisting of potato early blight, *Erwinia* soft rot, and *Verticillium* wilt.